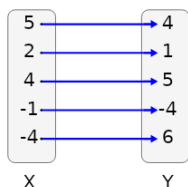




Interpret key features of a function from its graph

1

What is the definition of 'Domain' for this function?

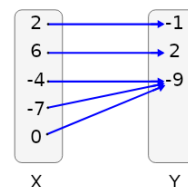


A The set of all possible X values

B The set of all possible Y values

2

What is the definition of 'Range' for this function?

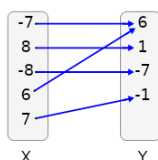


A The set of all possible X values

B The set of all possible Y values

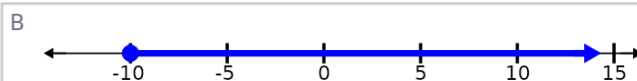
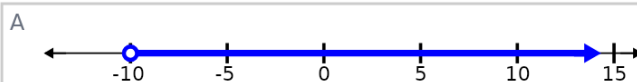
3

What is the range for this function?

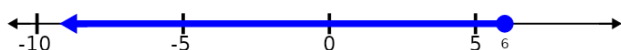
A $R: \{6, 1, -7, -1\}$ B $R: \{-7, 8, -8, 6, 7\}$ **4**

Which number line shows this range?

$$\{Y \in \mathbb{R} \mid -10 < Y\}$$

**5**

What inequality describes the range on this number line?

A $Y < 6$ B $Y \leq 6$ **6**

What range does this interval describe?

$$(0, 5]$$

A All real numbers greater than or equal to 0

B All real numbers greater than 0 and less than or equal to 5

7

What domain does this number line show?



A All real numbers greater than 3 and less than 6 OR greater than 9 and less than 10

B All real numbers greater than or equal to 3 and less than 6 OR greater than 9 and less than or equal to 10

8

What interval describes the domain on this number line?

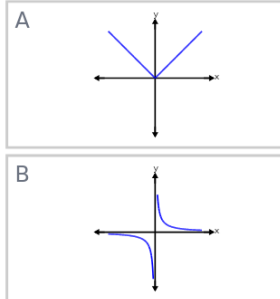
A $[-6, 4] \cup [7, 10]$ B $(-6, 4) \cup (7, 10)$



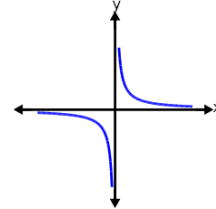
Interpret key features of a function from its graph

9

Absolute Value

**10**

What type of graph is this?



A

Linear

B

Reciprocal

C

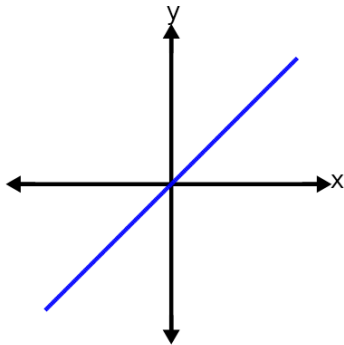
Absolute Value

D

Exponential

11

Which formula would create this graph?



A

$$y = ax^3 + bx^2 + cx + d$$

B

$$y = mx + b$$

C

$$y = a^x$$

D

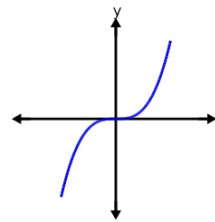
$$y = \frac{1}{x}$$

12

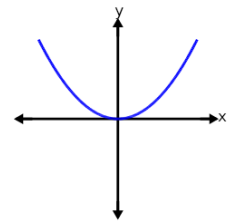
Which graph would this formula create?

$$y = ax^3 + bx^2 + cx + d$$

A



B

**13**

What would the vertex of this function be?

$$y = -1(x + 4)^2 + 1$$

A

(1, -4)

B

(-4, 1)

C

(-4, -1)

D

(4, 1)

E

(-1, -4)

F

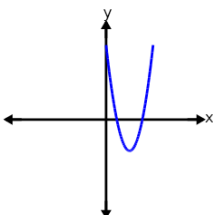
(-1, 1)

14

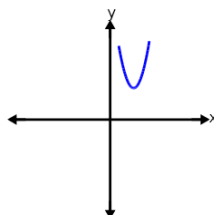
Which graph shows this quadratic function?

$$y = 1.5(x - 3)^2 - 4$$

A



B

**15**

What would the min/max y-value of this function be?

$$y = 0.5(x - 1)^2 - 1$$

A

Min: -1

B

Min: 0.5

C

Max: 1

D

Min: 1